CLAIM OR CLAIMS

WHAT IS CLAIMED IS:

1. A method of measuring relative channel delay between a pair of

5   component signals of a video signal comprising the steps of:

removing a local mean from the pair of component signals to produce

a pair of filtered component signals;

obtaining a cross-correlation between the pair of filtered component

signals;

10   finding a centroid for the cross-correlation; and

converting the centroid to a delay time as a measure of the relative

channel delay.

2. The method as recited in claim 1 further comprising the step of converting

15   the pair of filtered component signals to absolute values prior to the obtaining

step.

3. The method as recited in claims 1 or 2 wherein the finding step comprises

the steps of:

20   locating nearest zero-crossing on each side of a peak in the cross-

correlation; and

finding the centroid between the nearest zero-crossings.

4. The method as recited in claim 3 further comprising the step of removing a sample offset from the centroid to provide a sample delay for input to the converting step.

5   5. The method as recited in claim 4 wherein the converting step comprises the step of dividing the sample delay by a sample rate to obtain the delay time.

6. The method as recited in claims 1 or 2 further comprising the step of

10   removing a sample offset from the centroid to provide a sample delay for input to the converting step.

7. The method as recited in claim 6 wherein the converting step comprises the step of dividing the sample delay by a sample rate to obtain the delay

15   time.